

Tubolit[®] DG

THE ECONOMIC INSULATION FOR
EFFECTIVE ENERGY SAVING



- Meets European energy regulations
- Improved acoustic comfort
- Matching range for plastic pipe sizes
- Euroclass E

Technical Data - Tubolit DG

Brief description	Flexible, closed-cell extruded insulation material to reduce heat losses and noise on heating and plumbing installations.
Material type	Foam material based on polyethylene. Factory made polyethylene foam (PEF) according to EN 14313.
Colour	grey
Material Special Information	Self-adhesive coating on tapes and self-seal coating on tubes: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure, covered with polyethylene foil.
Applications	Insulation / protection of pipes (heating system pipes, domestic hot and cold water pipes) and other parts of heating and plumbing installations (incl. elbows, fittings, flanges, etc).
Remarks	After installation linear shrinkage of approx. 2% (or more in particular cases) may occur during the initial and even later phase of system operation. Under certain conditions (e.g. high humidity, main distribution pipes, pipes with constant or almost constant flow) cold water pipelines must be insulated with Armaflex, just the same as chilled water pipes in air-conditioning systems. Declaration of Performance is available in accordance with Article 7(3) of Regulation (EU) No 305/2011 on our homepage: www.armacell.com/DoP

Property	Value/Assessment			Test ^{*1}	Special Remark	
Temperature Range						
Temperature Range	max. service temperature		+ 100 °C	(+ 85 °C for tapes)	EU 5673 EU 5681	Tested acc. to EN 14707 and EN 14313
	min. service temperature			(as is usual in plumbing and heating installations)		
Thermal Conductivity						
Thermal Conductivity	ϑ_m 40		[°C]	$\lambda =$	EU 5673 EU 5681	Declared acc. to EN ISO 13787 Tested acc. to EN ISO 8497
	Tubolit DG tubes 5 - 30 mm	$\lambda \leq 0,040$	W/(m · K)	$[36 + 0,1 \cdot \vartheta_m + 0,0008 \cdot$ $(\vartheta_m - 40)^2]/1000$		
	Tubolit DG self- adhesive tape	$\lambda \leq 0,045$	W/(m · K)	$[41 + 0,1 \cdot \vartheta_m + 0,0008 \cdot$ $(\vartheta_m - 40)^2]/1000$		
Fire performance						
Reaction to fire ¹	Tubolit DG standard tubes 5 - 30 mm		E		EU 5673 EU 5681	Classified acc. to EN 13501-1 Tested acc. to EN ISO 11925-2
	Tubolit DG self-adhesive tape		E			
Acoustic Performance						
Reduction of structure-borne sound transmission	Insulation effect		≤ 30 dB(A)		D 2762	Tested acc. to DIN 52219 and EN ISO 3822-1
Other technical features						
Dimensions and tolerances	In accordance with EN 14313, table 1 and 2				EU 5673 EU 5681	Tested acc. to EN 822 EN 823 EN 13467
Storage & Shelf life	Tapes self-adhesive and tubes self-seal: 1 year					Can be stored in dry, clean rooms at normal relative humidity (50% to 70%) and ambient temperature (0 °C – 35 °C).

1. The reaction to fire classification is valid on metal surfaces.

*1 Further documents such as test certificates, approvals and the like can be requested using the registration number given.

All data and technical information are based on results achieved under typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. During storage of the product blooming on the surfaces may occur, especially at wall thickness below 19mm. This blooming does not affect the technical properties of the material, but can affect the adhesion properties. Therefore, the surface needs to be cleaned (wiped off) before adhesives can be applied.
Please consult our Customer Service Center before insulating stainless steels. Armaflex 520 adhesive and Clipse must be used to guarantee proper installation.

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